

**Amendments to the Claims:**

This listing of the claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for purifying fluid within a reflection optical switch system comprising:

placing gettering structures within a chamber within the reflection optical switch system, the gettering structures including heating components which when actuated attract impurities, wherein the gettering structures are placed within the chamber in such a way that at least some of the gettering structures ~~can be optically detected~~are optically accessible from outside the chamber; and,

turning on the heating components within the gettering structures to getter out impurities from fluid within the chamber.

2. (Original) A method as in claim 1 wherein placing gettering structures includes placing heating components around filament holes through which vapor enters the chamber from a reservoir.

3. (Original) A method as in claim 1 wherein placing gettering structures includes placing heating components on pillars within filament holes through which vapor enters the chamber from a reservoir.

4. (Canceled)

5. (Previously Presented) A method as in claim 1 wherein placing gettering structures includes placing a plurality of rectangular-shaped structures, the plurality of rectangular-shaped structures including rectangular-shaped structures of different sizes and composed of different materials so as to target different materials for gettering.

6. (Original) A method as in claim 1 wherein placing gettering structures includes placing structures that are used to generate a voltage differential across a gap of predetermined size.

7. (Currently Amended) A reflection optical switch system comprising:  
a chamber that stores fluid; and,  
gettering structures within the chamber, the gettering structures including heating components which, when actuated, absorb impurities from the fluid stored in the chamber, wherein the gettering structures are placed within the chamber in such a way that at least some of the gettering structures are optically accessible~~can be optically detected~~ from outside the chamber.

8. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed around filament holes through which vapor enters the chamber from a reservoir.

9. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include heating components placed on pillars within filament holes through which vapor enters the chamber from a reservoir.

10. (Canceled)

11. (Previously Presented) A reflection optical switch system as in claim 7 wherein the gettering structures include a plurality of rectangular-shaped structures, the plurality of rectangular-shaped structures including rectangular-shaped structures of different sizes and composed of different materials so as to target different materials for gettering.

12. (Original) A reflection optical switch system as in claim 7 wherein the gettering structures include structures that are used to generate a voltage differential across a gap of predetermined size.

13. (Currently Amended) A reflection optical switch system comprising:  
a chamber that stores fluid; and,  
gettering structures within the chamber, the gettering structures including heating components which, when actuated, absorb impurities from the fluid stored in the chamber, wherein the gettering structures include bridge structures placed over filament holes through which the fluid enters the chamber.

14. (Currently Amended) A reflection optical switch system comprising:  
chamber means for storing fluid; and,

gettering means, located within the chamber, for heating and gettering  
the fluid stored in the chamber means, wherein the gettering means are placed  
within the chamber means in such a way that at least some of the gettering  
~~structures means within the chamber means are optically accessible~~  
~~can be optically detected~~ from outside the chamber means.

15. (Original) A reflection optical switch system as in claim 14 wherein  
the gettering means includes heating components placed around filament holes  
through which vapor enters the chamber from a reservoir.

16. (Original) A reflection optical switch system as in claim 14 wherein  
the gettering means includes heating components placed on pillars within  
filament holes through which vapor enters the chamber from a reservoir.

17. (Canceled)

18. (Previously Presented) A reflection optical switch system as in claim  
14 wherein the gettering means includes a plurality of rectangular-shaped  
structures, the plurality of rectangular-shaped structures including rectangular-

shaped structures of different sizes and composed of different materials so as to target different materials for gettering.

19. (Currently Amended) A reflection optical switch system comprising:  
chamber means for storing fluid; and,  
gettering means, located within the chamber, for heating and gettering  
the fluid stored in the chamber means, wherein the gettering means include  
bridge structures placed over filament holes through which the fluid enters the  
chamber means.

20. (Original) A reflection optical switch system as in claim 14 wherein  
the gettering means includes structures that are used to generate a voltage  
differential across a gap of predetermined size.